

## ABSTRACT

A method of controlling transmission power in a mobile radio system in which a power control algorithm controls transmission power as a function of a transmission quality target value, wherein: a target value variation is applied to compensate for the effects of a compressed transmission mode in which transmission is interrupted during transmission gaps and the bit rate is increased correspondingly to compensate for the transmission gaps, the target value variation includes a first component for compensating for the effects of the increase in bit rate and a second component for compensating for other effects of transmission gaps, a corresponding anticipated variation of the transmission power is applied, corresponding to an approximate value of said target value variation obtained by a process of approximation from said second component.